



*Element Materials Technology - Daleville*  
9301 Innovation Drive  
Daleville, IN 47334  
TEL: (765) 378-4103 FAX: (765) 378-4109  
Website: [www.element.com](http://www.element.com)

April 23, 2019

Nickie Geros  
East Chicago Sanitary District  
5201 Indianapolis Blvd  
East Chicago, IN 46312  
TEL: 219-391-8466  
FAX:

RE: #901

Order No.: 19041717

Dear Nickie Geros:

Element Materials Technology - Daleville received 2 sample(s) on 4/16/2019 for the analyses presented in the following report.

In accordance with your instructions, Element Materials Technology Indiana conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis was conducted using approved methodologies from EPA, SM, or other client-specified methods. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Element Materials Technology Indiana.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Serena Shane  
Project Manager  
9301 Innovation Drive  
Daleville, IN 47334



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Daleville, IN 47334  
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Website: [www.element.com](http://www.element.com)

## **Case Narrative**

WO#: **19041717**

Date: **4/23/2019**

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**CLIENT:** East Chicago Sanitary District

**Project:** #901

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Available Cyanide was subcontracted to Test America; their report is attached in its entirety.



Element Materials Technology - Daleville  
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Website: www.element.com

## Analytical Report

(wastewater)

WO#: 19041717

Date Reported: 4/23/2019

**CLIENT:** East Chicago Sanitary District

**Collection Date:** 4/15/2019 8:56:00 AM

**Project:** #901

**Lab ID:** 19041717-001

**Matrix:** WASTEWATER

**Client Sample ID** #901

**Sample Location:**

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
<b>OIL AND GREASE, TOTAL</b>					<b>E1664</b>		Analyst: <b>CRT</b>
Oil & Grease, Total	44.2	9.0		mg/L	1	50.0	4/17/2019 10:00:00 AM
<b>OIL AND GREASE, NON POLAR</b>					<b>E1664</b>		Analyst: <b>CRT</b>
Oil & Grease, Petroleum	36.2	9.0		mg/L	1	50.0	4/20/2019 9:05:00 PM
<b>SV COMPOUNDS FOR CATEGORICAL RQTS</b>					<b>E625</b>		Analyst: <b>GB</b>
Bis(2-ethylhexyl)phthalate	< 0.100	0.100		mg/L	10	0.158	4/21/2019 1:53:00 PM
Carbazole	< 0.100	0.100		mg/L	10		4/21/2019 1:53:00 PM
Fluoranthene	< 0.050	0.050		mg/L	10	0.393	4/21/2019 1:53:00 PM
n-Decane	< 0.100	0.100		mg/L	10		4/21/2019 1:53:00 PM
n-Octadecane	< 0.100	0.100		mg/L	10		4/21/2019 1:53:00 PM
<b>SEMI-VOLATILES IN WW</b>					<b>E625</b>		Analyst: <b>GB</b>
Phenanthrene	< 0.100	0.100		mg/L	10		4/21/2019 1:53:00 PM

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level	H	Holding times for preparation or analysis exceeded
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	PQL	Practical Quantitation Limit
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits



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## Analytical Report

(wastewater)

WO#: 19041717

Date Reported: 4/23/2019

**CLIENT:** East Chicago Sanitary District **Collection Date:** 4/15/2019 8:56:00 AM  
**Project:** #901  
**Lab ID:** 19041717-002 **Matrix:** WASTEWATER  
**Client Sample ID** #901  
**Sample Location:**

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
<b>FLUORIDE</b>					<b>E300.0</b>		Analyst: <b>SKW</b>
Fluoride	1.4	0.2		mg/L	2	2.9	4/18/2019 3:45:00 PM
<b>CHEMICAL OXYGEN DEMAND</b>					<b>M5220 D</b>		Analyst: <b>DDE</b>
Chemical Oxygen Demand	729	10.0		mg/L	1		4/18/2019 12:53:00 PM
<b>AMMONIA AS N</b>					<b>E350.1</b>		Analyst: <b>CRT</b>
Nitrogen, Ammonia (As N)	32.7	1.00		mg/L	10	77.0	4/18/2019 10:59:00 AM
<b>PHENOLICS IN WASTEWATER</b>					<b>E420.1</b>		Analyst: <b>JGB</b>
Phenolics, Total Recoverable	0.087	0.050		mg/L	2	0.700	4/22/2019 2:30:34 PM
<b>TOTAL PHOSPHORUS</b>					<b>M4500-P F</b>		Analyst: <b>AN</b>
Total Phosphorus	0.649	0.050		mg/L	1	5.50	4/18/2019 3:00:00 PM
<b>TOTAL SUSPENDED SOLIDS</b>					<b>M2540 D</b>		Analyst: <b>DDE</b>
Suspended Solids (Residue, Non-Filterable)	141	59		mg/L	1		4/19/2019 11:46:00 AM
<b>MERCURY</b>					<b>E245.1</b>		Analyst: <b>FJR</b>
Mercury	0.00021	0.00010	*	mg/L	1	0.00020	4/17/2019 1:23:49 PM
<b>METALS IN WATER BY ICP-MS, TOTALS</b>					<b>E200.8</b>		Analyst: <b>FJR</b>
Arsenic	0.00959	0.00020		mg/L	1	0.500	4/17/2019 12:19:40 PM
Chromium	0.00229	0.00040		mg/L	1	0.282	4/17/2019 12:19:40 PM
Cobalt	0.00231	0.00010		mg/L	1		4/17/2019 12:19:40 PM

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level	H	Holding times for preparation or analysis exceeded
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	PQL	Practical Quantitation Limit
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits



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## Analytical Report

(wastewater)

WO#: 19041717

Date Reported: 4/23/2019

**CLIENT:** East Chicago Sanitary District

**Collection Date:** 4/15/2019 8:56:00 AM

**Project:** #901

**Lab ID:** 19041717-002

**Matrix:** WASTEWATER

**Client Sample ID** #901

**Sample Location:**

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
METALS IN WATER BY ICP-MS, TOTALS				E200.8	Analyst: FJR		
Copper	0.00873	0.00020		mg/L	1	0.301	4/17/2019 12:19:40 PM
Lead	0.00080	0.00020		mg/L	1	0.224	4/17/2019 12:19:40 PM
Molybdenum	0.0632	0.00020		mg/L	1	0.200	4/17/2019 12:19:40 PM
Nickel	0.0114	0.00100		mg/L	1	0.390	4/17/2019 12:19:40 PM
Tin	< 0.00500	0.00500		mg/L	1		4/17/2019 12:19:40 PM
Zinc	0.132	0.00400		mg/L	10	1.48	4/17/2019 12:19:40 PM

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level	H	Holding times for preparation or analysis exceeded
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	PQL	Practical Quantitation Limit
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058


Laboratory Job ID: 180-89095-1

Client Project/Site: Cyanide 19041717

**For:**

Element Materials Technology  
328 Ley Rd  
Suite100  
Fort Wayne, Indiana 46825

Attn: Katie Hernandez



Authorized for release by:  
4/22/2019 10:25:10 AM

Dominic Nestasie, Manager of Project Management  
(412)963-2453

[dominic.nestasie@testamericainc.com](mailto:dominic.nestasie@testamericainc.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

PA Lab ID: 02-00416

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## Case Narrative

Client: Element Materials Technology  
Project/Site: Cyanide 19041717

Job ID: 180-89095-1

**Job ID: 180-89095-1**

**Laboratory: Eurofins TestAmerica, Pittsburgh**

### Narrative

#### Job Narrative 180-89095-1

#### Receipt

The sample was received on 4/17/2019 at 8:40 AM; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at time of receipt was 4.1° C.

#### Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

#### General Chemistry

The following sample 19041717-001A (180-89095-1) was diluted to bring the concentration of target analyte within the calibration range. An elevated reporting limit (RL) is provided.

The method blank for analytical batch 180-276183 contained Available Cyanide above the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



## Definitions/Glossary

Client: Element Materials Technology  
Project/Site: Cyanide 19041717

Job ID: 180-89095-1

### Qualifiers

#### General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## Accreditation/Certification Summary

Client: Element Materials Technology  
Project/Site: Cyanide 19041717

Job ID: 180-89095-1

### Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19 *
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	02-06-20
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19 *
Texas	NELAP	6	T104704528-15-2	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19 *
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Pittsburgh

## Sample Summary

Client: Element Materials Technology  
Project/Site: Cyanide 19041717

Job ID: 180-89095-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-89095-1	19041717-001A	Water	04/15/19 08:56	04/17/19 08:40

## Method Summary

Client: Element Materials Technology  
Project/Site: Cyanide 19041717

Job ID: 180-89095-1

Method	Method Description	Protocol	Laboratory
OIA - 1677	Available Cyanide by Flow Injection, Lig	EPA	TAL PIT

### Protocol References:

EPA = US Environmental Protection Agency

### Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Lab Chronicle

Client: Element Materials Technology  
Project/Site: Cyanide 19041717

Job ID: 180-89095-1

**Client Sample ID: 19041717-001A**

**Lab Sample ID: 180-89095-1**

**Date Collected: 04/15/19 08:56**

**Matrix: Water**

**Date Received: 04/17/19 08:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	OIA - 1677		5			276183	04/18/19 12:39	CAK	TAL PIT
Instrument ID: ALPKEM2										

## Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

## Analyst References:

Lab: TAL PIT

Batch Type: Analysis

CAK = Chuck Kieda

# Client Sample Results

Client: Element Materials Technology  
Project/Site: Cyanide 19041717

Job ID: 180-89095-1

**Client Sample ID: 19041717-001A**

**Lab Sample ID: 180-89095-1**

**Date Collected: 04/15/19 08:56**

**Matrix: Water**

**Date Received: 04/17/19 08:40**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	0.13	B	0.010	0.0018	mg/L	—		04/18/19 12:39	5

# QC Sample Results

Client: Element Materials Technology  
Project/Site: Cyanide 19041717

Job ID: 180-89095-1

## Method: OIA - 1677 - Available Cyanide by Flow Injection, Lig

Lab Sample ID: MB 180-276183/67

Matrix: Water

Analysis Batch: 276183

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	0.000407	J B	0.0020	0.00036	mg/L	-		04/18/19 11:56	1

Lab Sample ID: LCS 180-276183/66

Matrix: Water

Analysis Batch: 276183

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Available	0.0501	0.0439		mg/L	-	88	82 - 132

## QC Association Summary

Client: Element Materials Technology  
Project/Site: Cyanide 19041717

Job ID: 180-89095-1

### General Chemistry

#### Analysis Batch: 276183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-89095-1	19041717-001A	Total/NA	Water	OIA - 1677	
MB 180-276183/67	Method Blank	Total/NA	Water	OIA - 1677	
LCS 180-276183/66	Lab Control Sample	Total/NA	Water	OIA - 1677	





## CHAIN OF CUSTODY RECORD

Omega COCID 119722

PAGE: 1

OF: 1

**ADDRESS**  
Element Materials Technology - Fort  
Wayne  
328 Ley Rd.  
Fort Wayne, IN 46825  
TEL: (260) 424-1622  
FAX: (260) 424-9124  
Website: www.element.com

SUB CONTRACTOR: <b>TEST_AMERICA</b>		COMPANY: <b>Test America</b>		SPECIAL INSTRUCTIONS / COMMENTS: <i>Due 4/22.19</i>	
ADDRESS: <b>Sample Receiving</b>					
CITY, STATE: <b>301 Alpha Drive</b>					
PHONE: <b>(80)</b>					
ACCOUNT #:					
ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED
1	19041717-001A	S-901 Grab	500HDPENAOH	Wastewater	4/15/2019 8:56:00 AM
CYAN_FREE					
		NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.		
		1			



180-89095 Chain of Custody

Relinquished By: <i>Travis + Mary</i>	Date: 4/16/2019	Time: 2:40 PM	Received By: <i>William Watson</i>	Date: 4/17/19	Time: 8:19
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
TAT: Standard <input type="checkbox"/>		RUSH <input type="checkbox"/>		Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>	
Note: RUSH requests will incur surcharges!					
REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE					
FOR LAB USE ONLY Temp of samples _____ °C Attempt to Cool? _____ Comments: _____					
7749-8503-2504					

## Login Sample Receipt Checklist

Client: Element Materials Technology

Job Number: 180-89095-1

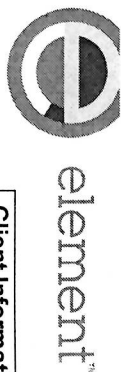
**Login Number: 89095**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



07 M102 W128  
Chain of Custody

Laboratory  
Number:

19041717

<b>Client Information:</b>		<b>Billing Information:</b>		<b>PO Number:</b>		<b>Project Name/Number:</b>		<b>Page 1 of 1</b>	
Company Name: East Chicago Sanitary District		Same				S-901		<b>Matrix Code</b>	
Contact Name: Nickie Geros				Quote Number:		Sampler's Signature		DW = Drinking Water WW = Waste Water GW = Ground Water AQ = Aqueous OT = Other SL = Sludge O = Oil F = Food NG = Natural Gas NGL = Natural Gas Liquid PW = Produced Water CF = Completion Fluid	
Address: 5201 Indianapolis Blvd				Required QC Level		Shipping Method: Bill Monthly		UPS / FedEx / Airborne DHL / Element / Hand / Mail	
City, State Zip: East Chicago IN 46312									
Phone Number: 219-391-8466		Ext. 240							
Fax Number:									
E-mail Address: ngeros@eastchicago.com									

Which Regulations Apply:				Turn Time	(Rush turn times will incur a surcharge and must be pre-approved by lab.)		Container	Pres.	Requested Tests								Comments		
<input type="checkbox"/> RCRA <input type="checkbox"/> POTW <input type="checkbox"/> NPDES <input type="checkbox"/> USDA/FDA <input type="checkbox"/> RECAP/RI/SC				5 TAT			Quantity	Type P=Plastic, G=Glass, V=Vial	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	CYANIDE 1677	Oil & Grease T&SI	**SVOC list	*Metals	NH <sub>3</sub> , T.PHOS, COD	PHENOL	300:FI,	TSS	Samples Meet Acceptance Policy <div><div>Yes</div>No</div>	
Sample ID/Description	Collection Information			Matrix	Type	Pres.	CYANIDE 1677	Oil & Grease T&SI	**SVOC list	*Metals	NH <sub>3</sub> , T.PHOS, COD	PHENOL	300:FI,	TSS					
	Date	Time	Grab / Composite																
S-901 Grab	4-15-19	856	Grab	WW	1	NAOH	X												*As, Cr, Cu, Pb, Mo, Ni, Zn, & Hg, Co, Sn,  **Carbazole, n-Decane, Fluoranthene, n-Octadecane, Phenanthrene, Bis(ZEH) Phthalate
S-901 Grab			Grab	WW	1	H2SO4		X											
S-901 Grab			Grab	WW	2	NONE			X										
S-901 Composite			Comp	WW	1	HNO3				X									
S-901 Composite			Comp	WW	1	H2SO4					X								
S-901 Composite			Comp	WW	1	H2SO4						X							
S-901 Composite			Comp	WW	1	NONE									X	X			

Relinquished by	Date/Time	Received by	Date/Time	Composite Sampler
W. Luffe	4-16-19/9:50 AM		4-16-19/09:50	Start Date/Time: 4-15-19 8:56 End Date/Time: 4-16-19 8:57
	4-16-19/13:53		4-16-19/13:55	Received at lab on ice? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Temp: 6 C

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

8800 North US 31 Columbus, IN 47201 USA P 812-375-0531 F 812-375-0731	328 Ley Road, Suite 100 Fort Wayne, IN 46825 USA P 260-471-7000 F 260-471-7777	909 Executive Dr. Warsaw, IN 46580 USA P 574-267-3305 F 574-269-6569	3371 Cleveland Road, Suite 100A South Bend, IN 46528-9780 USA P 574-277-0707	2417 W. Pinhook Rd Lafayette, LA 70508-3344 USA P 337-235-0483 F 337-233-6540
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